

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A revocation information transmission method used in a system including a plurality of ~~contents transmitting~~transceiver devices for transmitting ~~and receiving~~ contents ~~through a network~~, and a plurality of ~~contents receiving~~reproduction devices for ~~receiving~~ ~~reproducing~~ the received contents ~~on a network~~, the method comprising the steps of:

~~executing, mutualby the transceiver devices, authentication between the plurality of contents transmitting devices and of the plurality of contents receiving~~reproduction devices, respectively, where each of the contents transmitting~~transceiver~~ devices readingreads authentication information of a respective one of the contents receiving~~reproduction~~ devices;

~~individually uploading, from each of the transceiver devices through the network to a revocation integrator device, revocation information including key information of mutual~~indicating an authentication failure from each of the contents transmitting of a respective one of the individual reproduction devices or each of the contents receiving devices in case of mutual authentication failure to a revocation integrator that is separate from the plurality of contents transmitting devices and the plurality of contents receiving devices;

~~integrating, bywith the revocation integrator device, the revocation information uploaded from each of the contents transmitting~~transceiver~~ devices with the revocation information from each of the contents transmitting devices, as an integrated revocation list representing a common list of revocation information for each of revocations for the contents receiving devices and the contents transmitting the reproduction devices on the network;~~

packetizing the integrated revocation list and multiplexing the packetized revocation list into a stream; and

transmitting the stream to the contents ~~transmitting transceiver~~ devices on the network;

wherein each transceiver device utilizes, in the common list, other revocation information from other transceiver devices that previously uploaded revocation information to the revocation integrator device to:

a) deny unauthorized reproduction devices from reproducing the content when the unauthorized devices are included in the common list, and

b) allow authorized reproduction devices to reproduce the content when the authorized reproduction devices are not included in the common list~~the stream is an MPEG transport stream, and the integrated revocation list is transmitted by using a data structure of a section of the MPEG transport stream.~~

2.-3. (Cancelled).

4. (Previously Presented) The revocation information transmission method of claim 1, wherein the stream is an MPEG transport stream, and the integrated revocation list is transmitted by using a data structure of a PES packet of the MPEG transport stream.

5. (Previously Presented) The revocation information transmission method of claim 1, wherein the stream is an MPEG transport stream, and the integrated revocation list is transmitted by using a payload of a transport packet of the MPEG transport stream.

6. (Previously Presented) The revocation information transmission method of claim 1, wherein the integrated revocation list is transmitted by using an IP packet.

7.-8. (Cancelled).

9. (Currently Amended) A revocation information transmitting system comprising:

a plurality of contents transmitting transceiver devices for transmitting and receiving contents through a network;

~~a plurality of contents receivingreproduction devices for receiving reproducing the received contents, which are respectively connected to the plurality of contents transmitting devices;~~

wherein the transceiver devices include:

~~a first digital interface for outputting a compressed/expanded digital signal from the contents transmitting device to the contents receivingreproduction device devices;~~

~~a second digital interface for transmitting and receiving authentication information from the reproduction devices of the contents receiving device between the contents transmitting device and the contents receiving device;~~

~~a revocation integrator device on the network for receiving revocation information uploaded from the plurality of contents transmittingtransceiver devices or the plurality of contents receiving devices in case of mutual indicating an authentication failure between the contents transmitting devices and contents receivingof a respective one of the reproduction devices;~~

~~an integrator that is separate from the plurality of contents transmitting devices and the plurality of contents receiving devices that integrates the revocation integrator device integrating the revocation information received from the reproduction devices, as an integrated revocation list from the contents transmitting devices or the contents receiving devices, which is connected to the network, the integrated revocation list representing a common list of revocations revocation information for the contents receiving devices and the contents transmitting each of the reproduction devices on the network;~~

~~a multiplexer that multiplexes the integrated revocation list integrated by the integrator and multiplexes it into a stream; and~~

~~a transmitter that transmits the stream,~~

wherein the stream is an MPEG transport stream, and the integrated revocation list is transmitted by using a data structure of a section of the MPEG transport stream, and

wherein each transceiver device utilizes, in the common list, other revocation information from other transceiver devices that previously uploaded revocation information to the revocation integrator device to:

a) deny unauthorized reproduction devices from reproducing the content when the unauthorized devices are included in the common list, and

b) allow authorized reproduction devices to reproduce the content when the authorized reproduction devices are not included in the common list.

10.-11. (Cancelled).

12. (Previously Presented) The revocation information transmitting apparatus of claim 9, wherein the stream is an MPEG transport stream, and the integrated revocation list is transmitted by using a data structure of a PES packet of the MPEG transport stream.

13. (Previously Presented) The revocation information transmitting apparatus of claim 9, wherein the stream is an MPEG transport stream, and the integrated revocation list is transmitted by using a payload of a transport packet of the MPEG transport stream.

14. (Previously Presented) The revocation information transmitting apparatus of claim 9, wherein the integrated revocation list is transmitted by using an IP packet.

15.-16. (Cancelled).

17. (Currently Amended) A revocation information transmission method including a plurality of transceiver devices for transmitting and receiving contents through a network, and a plurality of reproduction devices for reproducing the received contents, the method comprising the steps of:

executing, by the transceiver devices, mutual authentication between contents transmitting equipment and contents receiving equipment of the reproduction devices, executed by the contents transmitting equipment which by reads reading authentication information of the contents receiving equipment reproduction devices through a first digital interface; and

outputting/uploading, by the transceiver devices, to a revocation integrator device, revocation information including key information of mutual authentication failure from the contents transmitting equipment or the contents receiving equipment in case of mutual authentication failure, of the reproduction devices; and

integrating, by the revocation integrator device, the revocation information uploaded from each of the transceiver devices as an integrated revocation list representing a common list of revocation information for each of the reproduction devices,

wherein the revocation information transmission method is used in a system comprising contents transmitting equipment for transmitting contents, contents receiving equipment for receiving contents, a second digital interface for outputting compressed/expanded digital signal from the contents transmitting equipment to the contents receiving equipment, the first digital interface connecting means for transmitting and receiving data between and connecting the contents transmitting equipment to the contents receiving equipment, and a revocation integrator that is separate from the contents transmitting equipment and the contents receiving equipment integrating the revocation information, as an integrated revocation list from the contents transmitting devices or the contents receiving devices, which is connected to the network, the integrated revocation list representing a common list of revocations for the contents receiving devices and the contents transmitting devices on the network,

wherein the integrated revocation list is transmitted from the revocation integrator to the contents transmitting transceiver devices using a data structure of a section of an MPEG transport stream,

wherein each transceiver device utilizes, in the common list, other revocation information from other transceiver devices that previously uploaded revocation information to the revocation integrator device to:

a) deny unauthorized reproduction devices from reproducing the content when the unauthorized devices are included in the common list, and

b) allow authorized reproduction devices to reproduce the content when the authorized reproduction devices are not included in the common list.

18. (Currently Amended) A revocation information managing apparatus comprising ~~for use with a plurality of transceiver devices, connected to a network for transmitting and receiving contents between a plurality of reproduction devices for reproducing the received contents, the managing apparatus including:~~

~~a plurality of contents transmitting equipments, connected to a network, for transmitting contents;~~

~~a plurality of contents receiving equipments, connected to a network, for receiving contents, which are respectively connected to the plurality of contents transmitting equipments; a first digital interface for outputting outputting a compressed/expanded digital signal from the contents transmitting equipment~~transceiver devices~~ to the contents receiving reproduction devices equipment;~~

~~a second digital interface for transmitting and receiving authentication information of the contents receiving apparatus between the contents transmitting equipment and the contents receiving equipment~~from the reproduction devices~~;~~

~~an output for outputting uploading, to a revocation integrator device, revocation information including key information of mutual of an authentication failure from the contents transmitting equipment or the contents receiving equipment in case of failure in a mutual authentication between the contents transmitting equipment and the contents receiving equipment~~of the reproduction devices~~; and~~

a receiver for receiving an integrated revocation list ~~from a~~~~from the~~ revocation integrator ~~device~~~~that is separate from the plurality of contents transmitting equipment and the plurality of contents receiving equipment~~, the integrated revocation list representing a common list of revocations ~~for the contents receiving equipment and the contents transmitting equipment on the network~~~~revocation information for each of the reproduction devices~~,

wherein the integrated revocation list is transmitted from the revocation integrator ~~device~~ to the ~~receiving means~~~~transceiver devices~~ using a data structure of a section of an MPEG transport stream, and

wherein each transceiver device utilizes, in the common list, other revocation information from other transceiver devices that previously uploaded revocation information to the revocation integrator device to:

- a) deny unauthorized reproduction devices from reproducing the content when the unauthorized devices are included in the common list, and
- b) allow authorized reproduction devices to reproduce the content when the authorized reproduction devices are not included in the common list.

19. (Currently Amended) The revocation information transmission method of claim 1, wherein:

one of the ~~contents transmitting~~~~transceiver~~ devices, as a first ~~contents transmitting~~~~transceiver~~ device includes a first digital interface for outputting a compressed/expanded digital signal to a respective one of the ~~contents receiving~~~~device~~~~reproduction devices~~, as a first ~~contents receiving~~~~reproduction~~ device and a second digital interface for executing the mutual authentication between the first ~~contents transmitting~~~~transceiver~~ device and the first ~~contents receiving~~~~reproduction~~ device, the method further comprising:

receiving the stream by the first ~~contents transmitting~~~~transceiver~~ device; and

selectively outputting, via the first digital interface of the first ~~contents transmitting~~~~transceiver~~ device, the compressed/expanded digital signal to the first

~~contents receiving reproduction~~ device responsive to the integrated revocation list received in the stream.

20. (Currently Amended) A revocation information transmission method used in a system including a plurality of ~~contents transmitting~~transceiver devices for transmitting and receiving contents, and a plurality of ~~contents receiving~~reproduction devices for ~~receiving~~reproducing the received contents on a network, the method comprising the steps of:

executing, ~~mutually~~ by the transceiver devices, authentication between the plurality of contents transmitting of the reproduction devices and the plurality of contents receiving devices, respectively, where each of the contents transmittingtransceiver devices ~~reading~~ reads authentication information of a respective one of the ~~contents receiving~~reproduction devices;

individually uploading, from each of the transceiver devices through the network to a revocation integrator device, revocation information including key information of mutual ~~indicating~~ an authentication failure of a respective one of the reproduction devices ~~from each of the contents transmitting devices or each of the contents receiving devices in case of mutual authentication failure to a revocation integrator that is separate from the plurality of contents transmitting devices and the plurality of contents receiving devices;~~

integrating, ~~with~~ by the revocation integrator device, the revocation information from each of the ~~contents transmitting~~transceiver devices with the revocation information from each of the contents transmitting devices, as an integrated revocation list representing a common list of revocation information for each of the reproduction devices ~~revocations for the contents receiving devices and the contents transmitting devices on the network;~~

packetizing the integrated revocation list and multiplexing the packetized revocation list into a stream; and

transmitting the stream to the ~~contents transmitting~~transceiver devices on the network,

wherein the stream is an MPEG transport stream, and the integrated revocation list is

- 1) transmitted by using a data structure of a section of the MPEG transport stream,
- 2) transmitted by using a payload of transport packet of the MPEG transport stream, and
- 3) transmitted by using an IP packet, and

wherein each transceiver device utilizes, in the common list, other revocation information from other transceiver devices that previously uploaded revocation information to the revocation integrator device to:

- a) deny unauthorized reproduction devices from reproducing the content when the unauthorized devices are included in the common list, and
- b) allow authorized reproduction devices to reproduce the content when the authorized reproduction devices are not included in the common list.